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| Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i> | | | | Docket Number (Optional) MSA247 | | Application Number | |
| | | | | Applicant HANNIS RUMP ET AL | | | |
| | | | | Filing Date | | Group Art Unit | |

| U.S. PATENT DOCUMENTS | | | | | | | | | |
|-----------------------|-----------------|----------|-----------------------------|-------|----------|-------------------------------|--|--|--|
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | | | |
| | 4049707 | SEP 1977 | HARTER JOSEPH WILLIAM et al | | | | | | |
| | 4737885 | APR 1988 | AKUTSU KENSUKE | | | | | | |
| | 3954586 | MAY 1976 | LOWTHER FRANK EUGENE | | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|-----------------|----------|------------------------|-------|----------|-------------|----|
| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
| | | | | | | YES | NO |
| | 3424889 | FEB 1986 | GERMANY | | | | |
| | 0537613 | APR 1993 | EUROPEAN PATENT OFFICE | | | | |
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| OTHER DOCUMENTS | | (Including Author, Title, Date, Pertinent Pages, Etc.) |
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| | | PATENT ABSTRACTS OF JAPAN (NICHIMEN DENSHI R. & AMP. DKK) |
| | | VOL. 1997 No. 03 MARCH 31, 1997 & JP 08310801A NOV. 26, 1996 ABSTRACT |
| | | PATENT ABSTRACTS OF JAPAN VOL. 1996 No. 07 JULY 31, 1996 & JP 08 081205 A |
| | | (TOSHIBA CORP) MARCH 26, 1996 ABSTRACT |
| | | PATENT ABSTRACTS OF JAPAN VOL. 014 No. 453 (C-0764) SEPTEMBER 28, 1990 |
| | | & JP 02480703A (NORITAKE CO LTD) JULY 13, 1990 ABSTRACT |
| EXAMINER | | DATE CONSIDERED |

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